

Fluoride ion/Chlorine ion Electrode

innoSens 510/520

JENSPRIMA's ion electrodes have a separate electrode design, which allows for the replacement of worn out parts of the electrode (electrode fluid and cap). This allows the electrodes to be used repeatedly with regular replacement of the cap and electrode fluid, thus achieving a service life that cannot be achieved with similar products in the market.

Measurement parameters

Fluoride ions, chloride ions

Applications

Municipal wastewater, boiler water, drinking water, outfalls

Applicable Controllers

innoCon 6800I Intelligent Ion Concentration Controller
Flumsys 10TC Controller



Note: If the electrode has been out of the water for approximately 30 minutes, then it is recommended that the electrode be put back into the water to regenerate for 1 hour.

Order Guide

| Order No. | Description |
|------------|--|
| 35-0500-10 | innoSens reference |
| 35-0510-00 | innoSens 510 Fluoride ion electrode, cable to be supplied separately |
| 35-0520-00 | innoSens 520 Chlorine ion electrode, cable to be supplied separately |
| 35-0100-05 | S8 connector cable, 5m |
| 50-0711-00 | PA-711 Flow cell, Acrylic |

innoSens 510 Fluoride ion Electrode

The fluorine ion-selective electrode is a solid-state thin-film electrode made primarily from LaF3 single crystals with a special polymer periphery.

| Technical parameter | |
|------------------------|--|
| Measuring parameter: | Fluorine ion concentration |
| Measurement range: | 0.1-10000mg/L |
| Slope: | 57±2mV/p F-ion |
| Response time: | <30s |
| Stability: | ±0.3mV(30min), ±1mV(24h) |
| Interfering ions: | OH-(pH>8), 形成HF以及HF2-(pH<5) Interfering ion to fluorine ion ratio produces 10% error |
| pH applicable range: | 5-8pH |
| Operating temperature: | 0-40°C |
| Sensitive film: | LaF3 single crystal |
| Housing material: | black plastic |
| Dimensions: | 12mm diameter, 100mm length |
| Mounting: | Flow-through tank/immersion mounting, optional reference electrode required |

innoSens 520 Chlorine ion Electrode

The chloride ion selective electrode is a solid film electrode made of a high strength AgCl/ Ag2 S pressed solid, which is then sealed in a plastic body with resin.

| Technical parameter | |
|------------------------|--|
| Measuring parameter: | Chlorine ion concentration |
| Measurement range: | 5-35000mg/L |
| Slope: | 57±2mV/p Cl-ion |
| Response time: | <30s |
| Stability: | ±0.3mV(30min), ±1mV(24h) |
| Interfering ions: | OH-/Cu2+/Br-/I-/CN-/Ag+/Hg2+/Pb2+/Ti+ Produces 10% error at a certain ratio |
| pH applicable range: | 1-10pH |
| Operating temperature: | 0-50°C |
| Sensitive film: | AgCl/Ag2S |
| Housing material: | black plastic |
| Dimensions: | 12mm diameter, 100mm length |
| Mounting: | Flow cell mounting, optional reference electrode required |